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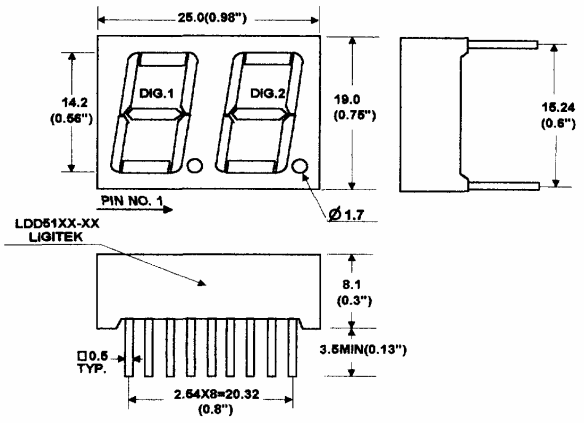
LIGITEK

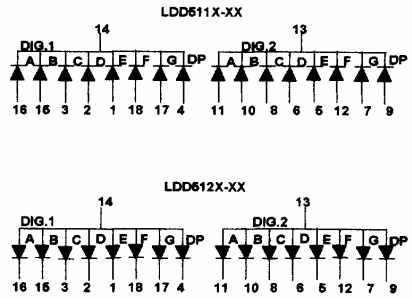
DUAL DIGIT LED DISPLAY (0.56Inch) **LDD511X/2X** series

PACKAGE DIMENSION



NOTE: All Dimension Are In Millimeters And (Inch)
Tolerance is ±0.25(0.01") Unless Otherwise Noted

INTERNAL CIRCUIT DIAGRAM



- **Connection To Electrical Schematic**

Electrical Connection

PIN NO.	LDD511X-XX	PIN NO.	LDD512X-XX
1	Anode E Dig.1	1	Cathode E Dig.1
2	Anode D Dig.1	2	Cathode D Dig.1
3	Anode C Dig.1	3	Cathode C Dig.1
4	Andoe DP Dig.1	4	Cathode DP Dig.1
5	Anode E Dig.2	5	Cathode E Dig.2
6	Andoe D Dig.2	6	Cathode D Dig.2
7	Anode G Dig.2	7	Cathode G Dig.2
8	Anode C Dig.2	8	Cathode C Dig.2
9	Anode DP Dig.2	9	Cathode DP Dig.2
10	Anode B Dig.2	10	Cathode B Dig.2
11	Anode A Dig.2	11	Cathode A Dig.2
12	Anode F Dig.2	12	Cathode F Dig.2
13	Common Cathode Dig.2	13	Common Anode Dig.2
14	Common Cathode Dig.1	14	Common Anode Dig.1
15	Anode B Dig.1	15	Cathode B Dig.1
16	Anode A Dig.1	16	Cathode A Dig.1
17	Anode G Dig.1	17	Cathode G Dig.1
18	Anode F Dig.1	18	Cathode F Dig.1

• Part Selection And Application Information (Ratings At 25°C Ambient)

PART NO	CHIP		common cathode or anode	λP (nm)	Δλ (nm)	Electrical					IV-M
						Vf(v)			Iv(mcd)		
	material	emitted				Min	Typ.	Max	Min	Typ.	
LDD5115-XX	GaAlAs	Red	Common Cathode	660	20	1.5	1.7	2.4	1.9	3.1	2:1
LDD5111-XX	GaP	Red		697	90	1.7	2.1	2.8	0.5	0.8	2:1
LDD5112-XX	GaP	Green		565	30	1.7	2.1	2.8	1.4	2.4	2:1
LDD5113-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	1.3	2.2	2:1
LDD5114-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	1.4	2.4	2:1
LDD5125-XX	GaAlAs	Red	Common Anode	660	20	1.5	1.7	2.4	1.9	3.1	2:1
LDD5121-XX	GaP	Red		697	90	1.7	2.1	2.8	0.5	0.8	2:1
LDD5122-XX	GaP	Green		565	30	1.7	2.1	2.8	1.4	2.4	2:1
LDD5123-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	1.3	2.2	2:1
LDD5124-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	1.4	2.4	2:1

• Absolute Maximum Rating (Ta=25°C)

Parameter	Red			Green		Yellow			Orange		Unit	Remark
Forward Current Per Chip	SR		H		G		Y			E		
	40		15		30		20			30	mA	
Peak Current Per Chip (Duty 1/10, 0.1MS Pulse Width)	200		60		120		80			120	mA	
Power Dissipation Per Chip	110		45	100		85			100		mW	
Derating Linear From 25°C Per Chip	0.45		0.25	0.45		0.45			0.45		mA/ °C	
Reverse Current Per Any Chip	10			10		10			10		μA	
Operating Temperature	-25°C TO +85°C											
Storage Temperature	-25°C TO +85°C											

Solder Temperature 1/16 Inch Below Seating Plane For 3 Seconds At 260°C

• Test Condition For Each Parameter

Parameter	Symbol	Unit	Test Condition
Forward Voltage Per Chip	Vf	volt	If=20mA
Luminous Intensity Per Chip	Iv	mcd	If=10mA
Peak Emission Wavelength	λP	nm	If=20mA
Spectral Line Half-Width	Δλ	nm	If=20mA
Reverse Current Any Chip	Ir	μA	Vr=5V
Luminous Intensity Matching Ratio	IV-M		